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#18 Page 1 of 4

1652



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/646,984

DATE: 04/24/2002

TIME: 14:34:12

Input Set : A:\7070.app

Output Set: N:\CRF3\04242002\I646984.raw

ENTERED

3 <110> APPLICANT: Rubingh et al., Donn N.
5 <120> TITLE OF INVENTION: SERINE PROTEASE VARIANTS HAVING DECREASED
6 IMMUNOGENICITY
8 <130> FILE REFERENCE: Serine protease variants
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/646,984
C--> 11 <141> CURRENT FILING DATE: 2000-09-25
13 <150> PRIOR APPLICATION NUMBER: 60/079,477
14 <151> PRIOR FILING DATE: 1998-03-26
16 <160> NUMBER OF SEQ ID NOS: 1
18 <170> SOFTWARE: PatentIn Ver. 2.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 275
22 <212> TYPE: PRT
23 <213> ORGANISM: Bacillus amyloliquefaciens
25 <400> SEQUENCE: 1
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27 1 5 10 15
29 His Ser Gln Gly Tyr Thr Gly Ser Asn Val Lys Val Ala Val Ile Asp
30 20 25 30
32 Ser Gly Ile Asp Ser Ser His Pro Asp Leu Lys Val Ala Gly Gly Ala
33 35 40 45
35 Ser Met Val Pro Ser Glu Thr Asn Pro Phe Gln Asp Asn Asn Ser His
36 50 55 60
38 Gly Thr His Val Ala Gly Thr Val Ala Ala Leu Asn Asn Ser Ile Gly
39 65 70 75 80
41 Val Leu Gly Val Ala Pro Ser Ala Ser Leu Tyr Ala Val Lys Val Leu
42 85 90 95
44 Gly Ala Asp Gly Ser Gly Gln Tyr Ser Trp Ile Ile Asn Gly Ile Glu
45 100 105 110
47 Trp Ala Ile Ala Asn Asn Met Asp Val Ile Asn Met Ser Leu Gly Gly
48 115 120 125
50 Pro Ser Gly Ser Ala Ala Leu Lys Ala Ala Val Asp Lys Ala Val Ala
51 130 135 140
53 Ser Gly Val Val Val Val Ala Ala Ala Gly Asn Glu Gly Thr Ser Gly
54 145 150 155 160
56 Ser Ser Ser Thr Val Gly Tyr Pro Gly Lys Tyr Pro Ser Val Ile Ala
57 165 170 175
59 Val Gly Ala Val Asp Ser Ser Asn Gln Arg Ala Ser Phe Ser Ser Val
60 180 185 190
62 Gly Pro Glu Leu Asp Val Met Ala Pro Gly Val Ser Ile Gln Ser Thr
63 195 200 205
65 Leu Pro Gly Asn Lys Tyr Gly Ala Tyr Asn Gly Thr Ser Met Ala Ser
66 210 215 220

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68 Pro His Val Ala Gly Ala Ala Ala Leu Ile Leu Ser Lys His Pro Asn
69 225                230                235                240
71 Trp Thr Asn Thr Gln Val Arg Ser Ser Leu Glu Asn Thr Thr Thr Lys
72                245                250                255
74 Leu Gly Asp Ser Phe Tyr Tyr Gly Lys Gly Leu Ile Asn Val Gln Ala
75                260                265                270
77 Ala Ala Gln
78                275
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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date